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2,2006 I hereby certify that this paper or fee is being deposited with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Mail Stop PCT, Commissioner for

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Chervl J. KOJIMA

Fengxing DU Michael D. GROSZ John C. BYATT

Serial No.:

Filed:

For: USE OF SINGLE NUCLEOTIDE POLYMORPHISM IN THE CODING § REGION OF THE PORCINE LEPTIN RECEPTOR GENE TO ENHANCE PORK PRODUCTION

Group Art Unit:

Examiner:

Atty. Dkt. No.: 11916.0058.PCUS02

§371 Application of International Application PCT/US2004/023050,

filed 16 July 2004

INFORMATION DISCLOSURE STATEMENT

§

§ § §

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, Applicants respectfully request that this Information Disclosure Statement be entered and that the references listed on attached Form PTO-1449 be considered by the Examiner and made of record.

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PARZO ROS O PCTATO 02 FEB 2006

The present application is a §371 national application of PCT Application No. PCT/US2004/023050, filed July 16, 2004. The PCT Application is relied upon for an earlier filing

date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d), a copy of the listed

documents A1 and C1-C7 are not enclosed as they have been previously cited by or submitted to the

U.S. Patent and Trademark Office in the International Search Report mailed March 21, 2005. A

copy of the reference C8 is attached.

In accordance with 37 C.F.R. § 1.97(g), this Information Disclosure Statement is not to be

construed as a representation that a search has been made or that no other possibly material

information, as defined in 37 C.F.R. § 1.56, exists.

The present Information Disclosure Statement is being filed prior to the receipt of a first

Office Action on the merits; and hence, is believed to be timely-filed in accordance with 37 C.F.R.

§1.97(b). No fees are believed to be due in connection with the filing of this Information

Disclosure Statement; however, if any fees should be due, the Commissioner is hereby authorized to

deduct said fees from Deposit Account No. 01-2508/11916.0058.PCUS02.

Applicant respectfully requests that the listed documents be made of record in the present

case.

Respectfully submitted,

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Date: February 2, 2006

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IAP20 Ros'd PCTIFTO 02 FEB 2006

OTL and Leptin Receptor candidate gene analysis in pigs

Cristina Ovilo', Luis Varona', Carmen Barragan', Rocio Leton', Carmen Rodriguez', Estefania Alves', Anna Mercader', Jose M Folch', Ana Fernandez', Jose Luis Noguera', and Miguel Toro'

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The leptin receptor gene (LEPR) is a candidate for traits related to growth and body composition, and it is located on SSC6 in a region where several QTL have been detected. The aims of this work were: a) to verify these QTL on a larger sample of animals and generations and b) to examine the effects of the LEPR variants on fatness and body composition traits, to evaluate the causality of the polymorphisms analyzed respect to the QTL. Three missense polymorphisms, located on exons 4 (T69M), 9 (D382A), and 14 (L663F), have been genotyped by pyrosequencing in a cross between Landrace and Iberian pigs comprising 33 F₀, 70 F₁, 418 F₂, 86 F₃, and 128 individuals coming from the backcross of four F2 males with 24 Landrace females. Thirteen microsatellites and one SNP on MC1R gene were also genotyped. Traits analyzed were: backfat thickness (BFT), intramuscular fat percentage (IMF), and eye muscle area (MA). Four statistical models were used. For the QTL study, a QTL detection model with sex and batch as fixed effects and a two-QTL model were applied. For the candidate gene study, an animal model with the effect of LEPR alleles, and a OTL model including the effect of LEPR haplotypes as fixed effects were evaluated. The results support the presence of two QTL on SSC6, one affecting BFT (position 60 cM), and the other and more significant one affecting BFT, IMF, and MA (position 130 cM). Results also confirm the implication of LEPR gene variants on the variability of these traits. The Iberian LEPR haplotype increases BFT and reduces MA. Functional studies are required to explain the effects observed.

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| | Form PTO-1449 (modified) | | | | Atty. Docket No. 11916.0058.PCUS02 | | Ser 56694 | |
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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Country

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Class

Translation

Yes/No

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EXAMINER: /Steven Pohnert/ (06/24/2008)

Exam. Ref.

Init.

Des.

BI

Document

Number

Date

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609: DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.